

## 03050106-020

(Turkey Creek)

### General Description

Watershed 03050106-020 is located in York and Chester Counties and consists primarily of *Turkey Creek* and its tributaries. The watershed occupies 93,719 acres of the Piedmont region of South Carolina. The predominant soil types consist of an association of the Wilkes-Cecil-Madison series. The erodibility of the soil (K) averages 0.26, and the slope of the terrain averages 12%, with a range of 2-40%.

Land use/land cover in the watershed includes: 77.5% forested land, 10.8% scrub/shrub land, 9.7% agricultural land, 1.2% urban land, 0.5% barren land, and 0.3% water.

Turkey Creek originates near the City of York, flowing out of Caldwell Lake and accepting drainage from Ross Branch (Lake Carolyn), Dry Fork, Little Turkey Creek (McClures Branch, Lindsey Creek), and Bryson Creek. Further downstream, Blue Branch enters Turkey Creek followed by Rainey Branch (Palmer Branch), Susybole Creek (Little Susybole Creek), Mill Creek (Rodens Creek), and McKelvy Creek. There are a few ponds and lakes (totaling 100.5 acres) in this watershed and a total of 190.9 stream miles, all classified FW. The lower tip of the watershed resides within the Sumter National Forest.

### Water Quality

<u>Station #</u>	<u>Type</u>	<u>Class</u>	<u>Description</u>
B-086	S	FW	ROSS BRANCH AT SC 49, SW OF YORK
B-136	W/BIO	FW	TURKEY CREEK AT SC 9, 14 MI NW OF CHESTER

***Turkey Creek (B-136)*** - Aquatic life uses are fully supported based on macroinvertebrate community data and physical/chemical data. Recreational uses are partially supported due to fecal coliform bacteria excursions.

***Ross Branch (B-086)*** - Aquatic life uses are fully supported. There is a significant decreasing trend in pH. Recreational uses are not supported due to fecal coliform bacteria excursions.

### NPDES Program

#### *Active NPDES Facilities*

<i>RECEIVING STREAM</i>	<i>NPDES#</i>
<i>FACILITY NAME</i>	<i>TYPE</i>
<i>PERMITTED FLOW @ PIPE (MGD)</i>	<i>LIMITATION</i>
<i>COMMENT</i>	
LITTLE SUSYBOLE CREEK	SCG730085
HANSON AGGREGATES SE/LOWRY QUARRY	MINOR INDUSTRIAL
PIPE #: 001 FLOW: M/R	EFFLUENT

SUSYBOLE CREEK TRIBUTARY  
 MACK ESTATES  
 PIPE #: 001 FLOW: 0.02  
 WQL FOR DO,TRC,NH3N; NOT CONSTRUCTED

SC0043095  
 MINOR DOMESTIC  
 WATER QUALITY

## Nonpoint Source Management Program

### *Land Disposal Activities*

#### Landfill Facilities

<i>LANDFILL NAME</i> <i>FACILITY TYPE</i>	<i>PERMIT #</i> <i>STATUS</i>
CARTERS LANDSCAPE & FARMS INDUSTRIAL	IWP-209 -----

### *Mining Activities*

<i>MINING COMPANY</i> <i>MINE NAME</i>	<i>PERMIT #</i> <i>MINERAL</i>
REA CONSTRUCTION CO. SAND PIT #123 - TURKEY CREEK MINE	0177-91 SAND
REA CONSTRUCTION CO. SAND PIT #124 - SUSYBOLE CREEK MINE	0180-23 SAND
HANSON AGGREGATES SE LOWRYS QUARRY	0759-91 GRANITE

## Water Supply

<i>WATER USER</i> <i>STREAM</i>	<i>TOTAL PUMP. CAPACITY (MGD)</i> <i>RATED PUMP. CAPACITY (MGD)</i>
CITY OF YORK	4.1
CALDWELL LAKE	2.2
CITY OF YORK	4.0
ROSS BRANCH TRIBUTARY - LAKE CAROLYN	2.2

## Growth Potential

There is a low to moderate potential for growth in this watershed, which contains portions of the City of York and the Towns of Lowrys, Sharon, and McConnells. The City of York is located at the top of the watershed, and extends water and sewer service in and around the city. Residential and commercial development is expected to grow in these areas. The Sumter National Forest effectively excludes the lower tip of the watershed from development.